

A STARTUP CIRCUIT FOR ANALOG INTEGRATED CIRCUIT  
APPLICATIONS

ABSTRACT OF THE DISCLOSURE

5           A startup circuit is used for producing a startup current for an analog  
integrated circuit device. The startup circuit includes a first portion including a  
diode component and a capacitance component. The first portion is  
configured to function as a power supply backup and generate a backup point  
voltage. The startup circuit includes a second portion including a current  
10 mirror component and a feedback component. The second portion is  
configured to generate a startup current using the backup point voltage, such  
that the startup current is provided based on the backup point voltage as a  
power supply voltage increases from a power off condition or a transient,  
thereby keeping an analog circuit alive during transients in power supply for  
15 fast recover and operation.